

Karunesh Kant

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,941
citations

304368

22
h-index

433756

31
g-index

42
all docs

42
docs citations

42
times ranked

1445
citing authors

#	ARTICLE	IF	CITATIONS
1	Cooling methodologies of photovoltaic module for enhancing electrical efficiency: A review. <i>Solar Energy Materials and Solar Cells</i> , 2017, 160, 275-286.	3.0	201
2	Heat transfer study of phase change materials with graphene nano particle for thermal energy storage. <i>Solar Energy</i> , 2017, 146, 453-463.	2.9	176
3	Recent technical advancements, economics and environmental impacts of floating photovoltaic solar energy conversion systems. <i>Journal of Cleaner Production</i> , 2021, 278, 124285.	4.6	173
4	Heat transfer studies of photovoltaic panel coupled with phase change material. <i>Solar Energy</i> , 2016, 140, 151-161.	2.9	151
5	Thermal energy storage based solar drying systems: A review. <i>Innovative Food Science and Emerging Technologies</i> , 2016, 34, 86-99.	2.7	142
6	A review on opportunities for implementation of solar energy technologies in agricultural greenhouses. <i>Journal of Cleaner Production</i> , 2021, 285, 124807.	4.6	122
7	Advancement in phase change materials for thermal energy storage applications. <i>Solar Energy Materials and Solar Cells</i> , 2017, 172, 82-92.	3.0	104
8	Heat transfer studies of building brick containing phase change materials. <i>Solar Energy</i> , 2017, 155, 1233-1242.	2.9	98
9	Thermal response of poly-crystalline silicon photovoltaic panels: Numerical simulation and experimental study. <i>Solar Energy</i> , 2016, 134, 147-155.	2.9	87
10	Solar still with latent heat energy storage: A review. <i>Innovative Food Science and Emerging Technologies</i> , 2017, 41, 34-46.	2.7	75
11	Analysis and design of air ventilated building integrated photovoltaic (BIPV) system incorporating phase change materials. <i>Energy Conversion and Management</i> , 2019, 196, 149-164.	4.4	70
12	Performance evaluation of fatty acids as phase change material for thermal energy storage. <i>Journal of Energy Storage</i> , 2016, 6, 153-162.	3.9	64
13	Progress and challenges of crop production and electricity generation in agrivoltaic systems using semi-transparent photovoltaic technology. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 158, 112126.	8.2	64
14	Ternary mixture of fatty acids as phase change materials for thermal energy storage applications. <i>Energy Reports</i> , 2016, 2, 274-279.	2.5	55
15	Melting and solidification behaviour of phase change materials with cyclic heating and cooling. <i>Journal of Energy Storage</i> , 2018, 15, 274-282.	3.9	44
16	Recent advances in thermophysical properties enhancement of phase change materials for thermal energy storage. <i>Solar Energy Materials and Solar Cells</i> , 2021, 231, 111309.	3.0	44
17	Heat transfer study of building integrated photovoltaic (BIPV) with nano-enhanced phase change materials. <i>Journal of Energy Storage</i> , 2020, 30, 101563.	3.9	38
18	Laminar drag reduction in microchannels with liquid infused textured surfaces. <i>Chemical Engineering Science</i> , 2021, 230, 116196.	1.9	35

#	ARTICLE	IF	CITATIONS
19	Advances and opportunities in thermochemical heat storage systems for buildings applications. Applied Energy, 2022, 321, 119299.	5.1	31
20	Performance analysis of a K ₂ CO ₃ -based thermochemical energy storage system using a honeycomb structured heat exchanger. Journal of Energy Storage, 2021, 38, 102563.	3.9	29
21	Solar Greenhouse With Thermal Energy Storage: a Review. Current Sustainable/Renewable Energy Reports, 2016, 3, 58-66.	1.2	27
22	Recent Advancements in Technical Design and Thermal Performance Enhancement of Solar Greenhouse Dryers. Sustainability, 2021, 13, 7025.	1.6	23
23	Melting and solidification of a phase change material with constructal tree-shaped fins for thermal energy storage. Journal of Energy Storage, 2022, 53, 105158.	3.9	22
24	Heat transfer and energy storage performances of phase change materials encapsulated in honeycomb cells. Journal of Energy Storage, 2021, 38, 102507.	3.9	19
25	Analysis of a novel constructal fin tree embedded thermochemical energy storage for buildings applications. Energy Conversion and Management, 2022, 258, 115542.	4.4	19
26	Analysis and optimization of the closed-adsorption heat storage bed performance. Journal of Energy Storage, 2020, 32, 101896.	3.9	10
27	Numerical simulation of building wall incorporating phase change material for cooling load reduction. Energy and Climate Change, 2020, 1, 100008.	2.2	5
28	Thermal Stability and Reliability Test of Some Saturated Fatty Acids for Low and Medium Temperature Thermal Energy Storage. Energies, 2021, 14, 4509.	1.6	5
29	Perspective of Solar Energy in India. Green Energy and Technology, 2018, , 17-35.	0.4	4
30	Analysis and Optimization of a Novel Hexagonal Waveguide Concentrator for Solar Thermal Applications. Energies, 2021, 14, 2146.	1.6	2
31	Deployment of the Low Carbon Energy Supply Technologies for Sustainable Development. , 2020, , 289-304.		1
32	Chapter 3 Use of Building Integrated Photovoltaic (BIPV): A Significant Step toward Green Buildings. , 2016, , 55-92.		0
33	Numerical Techniques for Evaluating the Performance of Solar Drying Systems. Green Energy and Technology, 2017, , 381-402.	0.4	0
34	Advances in Simulation Studies for Developing Energy-Efficient Buildings. , 2018, , 209-233.		0
35	Building Integrated Photovoltaic: Building Envelope Material and Power Generator for Energy-Efficient Buildings. , 2018, , 109-129.		0
36	Heating Ventilation and Air-Conditioning Systems for Energy-Efficient Buildings. , 2018, , 165-180.		0

#	ARTICLE	IF	CITATIONS
37	Phase Change Materials for Temperature Regulation of Photovoltaic Cells. , 2020, , 157-170.		0
38	Heat Transfer Studies of PCMs to Optimize the Cost Efficiency for Different Applications. , 2020, , 115-128.		0
39	Characterization Techniques of Phase Change Materials: Methods and Equipment. , 2020, , 97-113.		0
40	Photovoltaic Modules: Battery Storage and Grid Technology. Clean Energy Production Technologies, 2022, , 65-77.	0.3	0
41	Advances in solar greenhouse systems for cultivation of agricultural products. , 2022, , 77-111.		0